



Metro

Los Angeles County
Metropolitan Transportation Authority

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Metro Sustainability Program
State of California – Water Efficiency Grant
LACMTA - Maintenance Facility Water Fixture Replacement Program
Proposal Monitoring
December 11, 2014

Metro's sustainability program requires measurement and verification of all funded projects claiming to save energy or water. Typical procedures related to the monitoring of performance for water and energy projects follow the International Performance for Measurement and Verification Protocol (IPMVP), which provides an overview of current best practice techniques available for verifying results of energy efficiency, water efficiency, and renewable energy projects. There are four defined approaches for monitoring a given project's resource savings based on IPMVP. The details of the project and specificity of performance verification will determine the methodology used for a given project.

The project team will be utilizing IPMVP Option C: Whole Building to measure post installation performance. Option C involves use of utility meters or whole building sub-meters to assess the resource performance of a total building. This Option determines the collective savings of all ECMs applied to the part of the facility monitored by the meter. The water utility bills will be utilized to provide a whole facility look at water consumption pre and post installation. It will be difficult to determine exact savings due to the large process related consumption of water use. However, if it is determined that typical operation was followed for that time period, any calculated reductions sustained month after month will be attributed to the project.

The project team plans to carry out measurement and verification of savings for each phase of the project. This analysis is to be completed 6 months after fixture installation on a sample of individual of sites. The project team will complete a Measurement and Verification Report for each phase to document findings.

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